

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-10. (Canceled)

11. (Original) A semiconductor device comprising:

an insulating film formed on an electrode;

a contact hole formed in the insulating film and located on the electrode;

a conductive film embedded in the contact hole; and

a pixel electrode formed on the insulating film and the conductive film embedded in the contact hole,

wherein a part of an edge of the contact hole and a part of an edge of the pixel electrode are align.

12. (Original) The semiconductor device according to claim 11,
wherein the electrode is a drain electrode of a TFT.

13. (Original) The semiconductor device according to claim 11,
wherein the pixel electrode comprises an ITO (indium tin oxide) film.

14. (Original) The semiconductor device according to claim 11,
wherein at least a part of the pixel electrode is baked.

15. (Original) The semiconductor device according to claim 11,

wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.

16. (Original) A semiconductor device comprising:
an insulating film formed on an electrode;
a contact hole formed in the insulating film and located on the electrode;
a conductive film embedded in the contact hole; and
a pixel electrode formed on the insulating film and the conductive film embedded in the contact hole,

wherein a part of the conductive film embedded in the contact hole is not covered by the pixel electrode.

17. (Original) The semiconductor device according to claim 16,
wherein the electrode is a drain electrode of a TFT.

18. (Original) The semiconductor device according to claim 16,
wherein the pixel electrode comprises an ITO (indium tin oxide) film.

19. (Original) The semiconductor device according to claim 16,
wherein at least a part of the pixel electrode is baked.

20. (Original) The semiconductor device according to claim 16,
wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.

21. (Original) A semiconductor device comprising:

an insulating film formed on an electrode;
a contact hole formed in the insulating film and located on the electrode; and
a pixel electrode embedded in the contact hole and formed on the insulating film,
wherein a part of an edge of the contact hole and a part of an edge of the pixel
electrode are align.

22. (Original) The semiconductor device according to claim 21,
wherein the electrode is a drain electrode of a TFT.

23. (Original) The semiconductor device according to claim 21,
wherein the pixel electrode comprises an ITO (indium tin oxide) film.

24. (Original) The semiconductor device according to claim 21,
wherein at least a part of the pixel electrode is baked.

25. (Original) The semiconductor device according to claim 21,
wherein the semiconductor device is one selected from the group consisting of a
video camera, a still camera, a projector, a projection TV, a head mount display, a car
navigation, a personal computer, a mobile computer and a mobile phone.

26.-27. (Canceled)

28. (Currently Amended) A method of fabricating a semiconductor device
comprising steps of:

forming a first insulating film on an electrode;
forming a stopper film on the first insulating film;
forming a second insulating film on the stopper film;

etching the second insulating film with the stopper film as an etching stopper and thereby forming a concave portion in the second insulating film;

etching the stopper film and the first insulating film and thereby forming a contact hole in the stopper film and the first insulating film located below the concave portion and above the electrode after forming the concave portion;

forming a conductive film embedding the contact hole and the concave portion and on the second insulating film; and

forming a pixel electrode made of the conductive film embedded in the contact hole and the concave portion by one of a CMP polishing method and an etching-back method to the conductive film.

29. (Original) The method of fabricating the semiconductor device according to claim 28,

wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.

30. (Currently Amended) A method of fabricating a semiconductor device comprising steps of:

forming a first insulating film on an electrode;

forming a stopper film on the first insulating film;

forming a second insulating film on the stopper film;

etching the second insulating film, the stopper film and the first insulating film and thereby forming a contact hole in the second insulating film, the stopper film and the first insulating film located above the electrode;

etching the second insulating film with the stopper film as an etching stopper and thereby forming a concave portion connected to the contact hole in the second insulating film after forming the contact hole;

forming a conductive film embedding the contact hole and the concave portion and on the second insulating film; and

forming a pixel electrode made of the conductive film embedded in the contact hole and the concave portion by one of a CMP polishing method and an etching-back method to the conductive film.

31. (Original) The method of fabricating the semiconductor device according to claim 30,

wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.

32. (Currently Amended) A method of fabricating a semiconductor device comprising steps of:

forming an insulating film on an electrode;

etching the insulating film and thereby forming a concave portion in the insulating film;

etching the insulating film and thereby forming a contact hole in the insulating film located below the concave portion and above the electrode after forming the concave portion;

forming a conductive film embedding the contact hole and the concave portion and on the insulating film; and

forming a pixel electrode made of the conductive film embedded in the contact hole and the concave portion by one of a CMP polishing method and an etching-back method to the conductive film.

33. (Original) The method of fabricating the semiconductor device according to claim 32,

wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.

34.-35. (Canceled)

36. (Original) A method of fabricating a semiconductor device comprising steps of:

forming an insulating film on an electrode;

etching the insulating film and thereby forming a concave portion in the insulating film;

etching the insulating film and thereby forming a contact hole in the insulating film located below the concave portion and above the electrode;

forming a conductive film embedding the contact hole and the concave portion and on the insulating film;

removing a part of the conductive film located on the insulating film by one of a CMP polishing method and an etching-back method to the conductive film; and

forming a pixel electrode on the insulating film and the conductive film remained,

wherein a part of an edge of the contact hole and a part of an edge of the pixel electrode are align.

37. (Original) The method of fabricating the semiconductor device according to claim 36,

wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.

38. (Original) A method of fabricating a semiconductor device comprising steps of:

- forming an insulating film on an;
- forming a contact hole in the insulating film located above the electrode;
- forming the first ITO film embedding the contact hole and on the insulating film;
- applying one of a CMP polishing and an etching-back to the first ITO film, and thereby removing the first ITO film on the insulating film with the first ITO film embedded in the contact hole remained;
- baking the embedded first ITO film;
- forming a second ITO film on the insulating film and the embedded first ITO film;

and

- etching the second ITO film, and thereby forming, on the insulating film and the embedded first ITO film, a transparent electrode made of the second ITO film,

wherein a part of an edge of the contact hole and a part of an edge of the pixel electrode are align.

39. (Original) The method of fabricating the semiconductor device according to claim 38,

wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.

40. (Original) A method of fabricating a semiconductor device comprising steps of:

- forming an insulating film on an electrode;
- forming a contact hole in the insulating film located above the electrode;
- forming a conductive film embedding the contact hole and on the insulating film;

applying one of a CMP polishing and an etching-back to the conductive film, and thereby thinning a thickness of the conductive film on the insulating film; and

etching the conductive film, and thereby forming a pixel electrode made of the conductive film on the insulating film,

wherein a part of an edge of the contact hole and a part of an edge of the pixel electrode are align.

41. (Original) The method of fabricating the semiconductor device according to claim 40,

wherein the semiconductor device is one selected from the group consisting of a video camera, a still camera, a projector, a projection TV, a head mount display, a car navigation, a personal computer, a mobile computer and a mobile phone.